

2

YFPGGFP Sequence.ST25.txt SEQUENCE LISTING

<120> System and Method for Detecting Bioanalytes and Method for Producing a Bioanalyte Sensor
<130> 03-016

<140> 10/649,433 <141> 2003-08-26

<160> 1

<170> PatentIn version 3.3

<210> 1 <211> 6729 <212> DNA

<213> Escherichia coli

<400> 1

gtttgacagc ttatcatcga ctgcacggtg caccaatgct tctggcgtca ggcagccatc 60 ggaagctgtg gtatggctgt gcaggtcgta aatcactgca taattcgtgt cgctcaaggc 120 gcactcccgt tctggataat gttttttgcg ccgacatcat aacggttctg gcaaatattc 180 tgaaatgagc tgttgacaat taatcatccg gctcgtataa tgtgtggaat tgtgagcgga 240 taacaatttc acacaggaaa cagcgccgct gagaaaaagc gaagcggcac tgctctttaa 300 caatttatca gacaatctgt gtgggcactc gaccggaatt atcgattaac tttattatta 360 aaaattaaag aggtatatat taatgtatcg attaaataag gaggaataaa ccatggtgag 420 caagggcgag gagctgttca ccggggtggt gcccatcctg gtcgagctgg acggcgacgt 480 aaacggccac aagttcagcg tgtccggcga gggcgagggc gatgccacct acggcaagct 540 gaccctgaag ttcatctgca ccaccggcaa gctgcccgtg ccctggccca ccctcgtgac 600 caccttcggc tacggcctgc agtgcttcgc ccgctacccc gaccacatga agcagcacga 660 cttcttcaag tccgccatgc ccgaaggcta cgtccaggag cgcaccatct tcttcaagga 720 CGaCGGCaac tacaagaccc gcgccgaggt gaagttcgag ggcgacaccc tggtgaaccg 780 catcgagctg aagggcatcg acttcaagga ggacggcaac atcctggggc acaagctgga 840 gtacaactac aacagccaca acgtctatat catggccgac aagcagaaga acggcatcaa 900 ggtgaacttc aagatccgcc acaacatcga ggacggcagc gtgcagctcg ccgaccacta 960 ccagcagaac acccccatcg gcgacggccc cgtgctgctg cccgacaacc actacctgag 1020 ctaccagtcc gccctgagca aagaccccaa cgagaagcgc gatcacatgg tcctgctgga 1080 gttcgtgacc gccgccggga tcactctcgg catggacgag ctgtacaaga ctagtgctga 1140 tactcgcatt ggtgtaacaa tctataagta cgacgataac tttatgtctg tagtgcgcaa 1200 ggctattgag caagatgcga aagccgcgcc agatgttcag ctgctgatga atgattctca 1260 Page 1

YFPGGFP Sequence.ST25.txt

gaatgaccag	tccaagcaga	acgatcagat	cgacgtattg	ctggccaagg	gggtgaaggc	1320
actggccatc	aacctggttg	acccggcagc	tgcgggtacg	gtgattgaga	aagcgcgtgg	1380
gcaaaacgtg	ccggtggttt	tcttcaacaa	agaaccgtct	cgtaaggcgc	tggatagcta	1440
cgacaaagcc	tactacgttg	gcactgactc	aaaagagtcc	ggcattattc	aaggcgattt	1500
gattgctaaa	cactgggcgg	cgaatcaggg	ttgggatctg	aacaaagacg	gtcagattca	1560
gttcgtactg	ctgaaaggtg	aaccgggcca	tccggatgca	gaagcacgta	ccacttacgt	1620
gattaaagaa	ttgaacgata	aaggcatcaa	aactgaacag	ttacagttag	ataccgcaat	1680
gtgggacacc	gctcaggcga	aagataagat	ggacgcctgg	ctgtctggcc	cgaacgccaa	1740
caaaatcgaa	gtggttatcg	ccaacaacga	tgcgatggca	atgggcgcgg	ttgaagcgct	1800
gaaagcacac	aacaagtcca	gcattccggt	gtttggcgtc	gatgcgctgc	cagaagcgct	1860
ggcgctggtg	aaatccggtg	cactggcggg	caccgtactg	aacgatgcta	acaaccaggc	1920
gaaagcgacc	tttgatctgg	cgaaaaacct	ggccgatggt	aaaggtgcgg	ctgatggcac	1980
caactggaaa	atcgacaaca	aagtggtccg	cgtaccttat	gttggcgtag	ataaagacaa	2040
cctggctgaa	ttcagcaaga	aaggtaccag	taaaggagaa	gaacttttca	ctggagttgt	2100
cccaattctt	gttgaattag	atggtgatgt	taatgggcac	aaattttctg	tcagtggaga	2160
gggtgaaggt	gatgcaacat	acggaaaact	tacccttaaa	tttatttgca	ctactggaaa	2220
actacctgtt	ccatggccaa	cacttgtcac	tactttctct	tatggtgttc	aatgcttttc	2280
ccgttatccg	gatcatatga	aacggcatga	ctttttcaag	agtgccatgc	ccgaaggtta	2340
tgtacaggaa	cgcactatat	ctttcaaaga	tgacgggaac	tacaagacgc	gtgctgaagt	2400
caagtttgaa	ggtgataccc	ttgttaatcg	tatcgagtta	aaaggtattg	attttaaaga	2460
agatggaaac	attctcggac	acaaactcga	gtacaactat	aactcacaca	atgtatacat	2520
cacggcagac	aaacaaaga	atggaatcaa	agctaacttc	aaaattcgcc	acaacattga	2580
agatggatcc	gttcaactag	cagaccatta	tcaacaaaat	actccaattg	gcgatggccc	2640
tgtcctttta	ccagacaacc	attacctgtc	gacacaatct	gccctttcga	aagatcccaa	2700
cgaaaagcgt	gaccacatgg	tccttcttga	gtttgtaact	gctgctggga	ttacacatgg	2760
catggatgag	ctctacaaat	aaaagcttac	gtagaacaaa	aactcatctc	agaagaggat	2820
ctgaatagcg	ccgtcgacca	tcatcatcat	catcattgag	tttaaacggt	ctccagcttg	2880
gctgttttgg	cggatgagag	aagattttca	gcctgataca	gattaaatca	gaacgcagaa	2940
gcggtctgat	aaaacagaat	ttgcctggcg	gcagtagcgc	ggtggtccca	cctgacccca	3000
tgccgaactc	agaagtgaaa	cgccgtagcg	ccgatggtag	tgtggggtct	ccccatgcga	3060
gagtagggaa	ctgccaggca	tcaaataaaa	cgaaaggctc	agtcgaaaga	ctgggccttt	3120

YFPGGFP Sequence.ST25.txt cgttttatct gttgtttgtc ggtgaacgct ctcctgagta ggacaaatcc gccgggagcg 3180 gatttgaacg ttgcgaagca acggcccgga gggtggcggg caggacgccc gccataaact 3240 gccaggcatc aaattaagca gaaggccatc ctgacggatg gcctttttgc gtttctacaa 3300 actctttttg tttattttc taaatacatt caaatatgta tccgctcatg agacaataac 3360 cctgataaat gcttcaataa tattgaaaaa ggaagagtat gagtattcaa catttccgtg 3420 tcgcccttat tccctttttt gcggcatttt gccttcctgt ttttgctcac ccagaaacgc 3480 tggtgaaagt aaaagatgct gaagatcagt tgggtgcacg agtgggttac atcgaactgg 3540 atctcaacag cggtaagatc cttgagagtt ttcgccccga agaacgtttt ccaatgatga 3600 gcacttttaa agttctgcta tgtggcgcgg tattatcccg tgttgacgcc gggcaagagc 3660 aactcggtcg ccgcatacac tattctcaga atgacttggt tgagtactca ccagtcacag 3720 aaaagcatct tacggatggc atgacagtaa gagaattatg cagtgctgcc ataaccatga 3780 gtgataacac tgcggccaac ttacttctga caacgatcgg aggaccgaag gagctaaccg 3840 cttttttgca caacatgggg gatcatgtaa ctcgccttga tcgttgggaa ccggagctga 3900 atgaagccat accaaacgac gagcgtgaca ccacgatgcc tgtagcaatg gcaacaacgt 3960 tgcgcaaact attaactggc gaactactta ctctagcttc ccggcaacaa ttaatagact 4020 ggatggaggc ggataaagtt gcaggaccac ttctgcgctc ggcccttccg gctggctggt 4080 ttattgctga taaatctgga gccggtgagc gtgggtctcg cggtatcatt gcagcactgg 4140 ggccagatgg taagccctcc cgtatcgtag ttatctacac gacggggagt caggcaacta 4200 tggatgaacg aaatagacag atcgctgaga taggtgcctc actgattaag cattggtaac 4260 tgtcagacca agtttactca tatatacttt agattgattt aaaacttcat ttttaattta 4320 aaaggatcta ggtgaagatc ctttttgata atctcatgac caaaatccct taacgtgagt 4380 tttcgttcca ctgagcgtca gaccccgtag aaaagatcaa aggatcttct tgagatcctt 4440 tttttctgcg cgtaatctgc tgcttgcaaa caaaaaaacc accgctacca qcqqtqqttt 4500 gtttgccgga tcaagagcta ccaactcttt ttccgaaggt aactggcttc agcagagcgc 4560 agataccaaa tactgtcctt ctagtgtagc cgtagttagg ccaccacttc aagaactctg 4620 4680 tagcaccgcc tacatacctc gctctgctaa tcctgttacc agtggctgct gccagtggcg ataagtcgtg tcttaccggg ttggactcaa gacgatagtt accggataag gcgcagcggt 4740 4800 cgggctgaac ggggggttcg tgcacacagc ccagcttgga gcgaacgacc tacaccgaac 4860 tgagatacct acagcgtgag ctatgagaaa gcgccacgct tcccgaaggg agaaaggcgg 4920 acaggtatcc ggtaagcggc agggtcggaa caggagagcg cacgagggag cttccagggg gaaacgcctg gtatctttat agtcctgtcg ggtttcgcca cctctgactt gagcgtcgat 4980

ttttgtgatg ctcgtcaggg gggcggagcc tatggaaaaa cgccagcaac gcggcctttt

Page 3

5040

YFPGGFP Sequence.ST25.txt

tacggttcct	ggccttttgc	tggccttttg	ctcacatgtt	ctttcctgcg	ttatcccctg	5100
attctgtgga	taaccgtatt	accgcctttg	agtgagctga	taccgctcgc	cgcagccgaa	5160
cgaccgagcg	cagcgagtca	gtgagcgagg	aagcggaaga	gcgcctgatg	cggtattttc	5220
tccttacgca	tctgtgcggt	atttcacacc	gcatatggtg	cactctcagt	acaatctgct	5280
ctgatgccgc	atagttaagc	cagtatacac	tccgctatcg	ctacgtgact	gggtcatggc	5340
tgcgccccga	cacccgccaa	cacccgctga	cgcgccctga	cgggcttgtc	tgctcccggc	5400
atccgcttac	agacaagctg	tgaccgtctc	cgggagctgc	atgtgtcaga	ggttttcacc	5460
gtcatcaccg	aaacgcgcga	ggcagcagat	caattcgcgc	gcgaaggcga	agcggcatgc	5520
atttacgttg	acaccatcga	atggtgcaaa	acctttcgcg	gtatggcatg	atagcgcccg	5580
gaagagagtc	aattcagggt	ggtgaatgtg	aaaccagtaa	cgttatacga	tgtcgcagag	5640
tatgccggtg	tctcttatca	gaccgtttcc	cgcgtggtga	accaggccag	ccacgtttct	5700
gcgaaaacgc	gggaaaaagt	ggaagcggcg	atggcggagc	tgaattacat	tcccaaccgc	5760
gtggcacaac	aactggcggg	caaacagtcg	ttgctgattg	gcgttgccac	ctccagtctg	5820
gccctgcacg	cgccgtcgca	aattgtcgcg	gcgattaaat	ctcgcgccga	tcaactgggt	5880
gccagcgtgg	tggtgtcgat	ggtagaacga	agcggcgtcg	aagcctgtaa	agcggcggtg	5940
cacaatcttc	tcgcgcaacg	cgtcagtggg	ctgatcatta	actatccgct	ggatgaccag	6000
gatgccattg	ctgtggaagc	tgcctgcact	aatgttccgg	cgttatttct	tgatgtctct	6060
gaccagacac	ccatcaacag	tattattttc	tcccatgaag	acggtacgcg	actgggcgtg	6120
gagcatctgg	tcgcattggg	tcaccagcaa	atcgcgctgt	tagcgggccc	attaagttct	6180
gtctcggcgc	gtctgcgtct	ggctggctgg	cataaatatc	tcactcgcaa	tcaaattcag	6240
ccgatagcgg	aacgggaagg	cgactggagt	gccatgtccg	gttttcaaca	aaccatgcaa	6300
atgctgaatg	agggcatcgt	tcccactgcg	atgctggttg	ccaacgatca	gatggcgctg	6360
ggcgcaatgc	gcgccattac	cgagtccggg	ctgcgcgttg	gtgcggatat	ctcggtagtg	6420
ggatacgacg	ataccgaaga	cagctcatgt	tatatcccgc	cgtcaaccac	catcaaacag	6480
gattttcgcc	tgctggggca	aaccagcgtg	gaccgcttgc	tgcaactctc	tcagggccag	6540
gcggtgaagg	gcaatcagct	gttgcccgtc	tcactggtga	aaagaaaaac	caccctggcg	6600
cccaatacgc	aaaccgcctc	tcccgcgcg	ttggccgatt	cattaatgca	gctggcacga	6660
caggtttccc	gactggaaag	cgggcagtga	gcgcaacgca	attaatgtga	gttagcgcga	6720
attgatctg						6729